

Title (en)
METHOD OF PRODUCING A POROUS CERAMIC MATERIAL

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES PORÖSEN KERAMISCHEN MATERIALS

Title (fr)
PROCÉDÉ DE PRODUCTION D'UN MATÉRIAU CÉRAMIQUE POREUX

Publication
EP 2039668 A1 20090325 (EN)

Application
EP 07767411 A 20070622

Priority

- JP 2007062602 W 20070622
- JP 2006174372 A 20060623

Abstract (en)
Provision of a porous ceramic material which rapidly induces bone tissue formation and has practical strength. A porous ceramic material 11 having substantially unidirectionally oriented pores 12, a porosity of 40 - 90%, and an average open area of one pore of $0.05 \times 10^{-3} - 50 \times 10^{-3} \text{ mm}^2$ both in a first sectional surface perpendicular to the pore 12 orientation direction and a second sectional surface parallel to the first sectional surface and 5 mm distant from the first sectional surface in the pore 12 orientation direction. Using the material 11, when a cylindrical test piece (diameter 3 mm x height 5 mm, the pore 12 array direction as a height direction) made of the material is dipped in polyethylene glycol up to 1 mm from one end thereof, polyethylene glycol permeates through the whole test piece preferably within 30 seconds.

IPC 8 full level
C04B 38/00 (2006.01); **A61L 27/00** (2006.01); **C04B 35/447** (2006.01)

CPC (source: EP US)
A61L 27/10 (2013.01 - EP US); **A61L 27/56** (2013.01 - EP US); **A61P 43/00** (2017.12 - EP); **B28B 1/007** (2013.01 - US); **C04B 35/043** (2013.01 - EP US); **C04B 35/111** (2013.01 - EP US); **C04B 35/447** (2013.01 - EP US); **C04B 35/46** (2013.01 - EP US); **C04B 35/486** (2013.01 - EP US); **C04B 35/565** (2013.01 - EP US); **C04B 35/62655** (2013.01 - EP US); **C04B 38/0074** (2013.01 - EP US); **A61L 2430/02** (2013.01 - EP US); **C04B 2111/00836** (2013.01 - EP US); **C04B 2235/3212** (2013.01 - EP US); **C04B 2235/5436** (2013.01 - EP US); **C04B 2235/5445** (2013.01 - EP US); **C04B 2235/77** (2013.01 - EP US); **C04B 2235/96** (2013.01 - EP US); **C04B 2235/9607** (2013.01 - EP US); **Y10T 428/249953** (2015.04 - EP US); **Y10T 428/249975** (2015.04 - EP US)

Cited by
US9782518B2; CN109276332A; US2013253657A1; EP2644208A4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 2039668 A1 20090325; **EP 2039668 A4 20120111**; **EP 2039668 B1 20190821**; JP 5565721 B2 20140806; JP WO2007148788 A1 20091119; US 2009281633 A1 20091112; US 8609235 B2 20131217; WO 2007148788 A1 20071227

DOCDB simple family (application)
EP 07767411 A 20070622; JP 2007062602 W 20070622; JP 2008522541 A 20070622; US 30634107 A 20070622